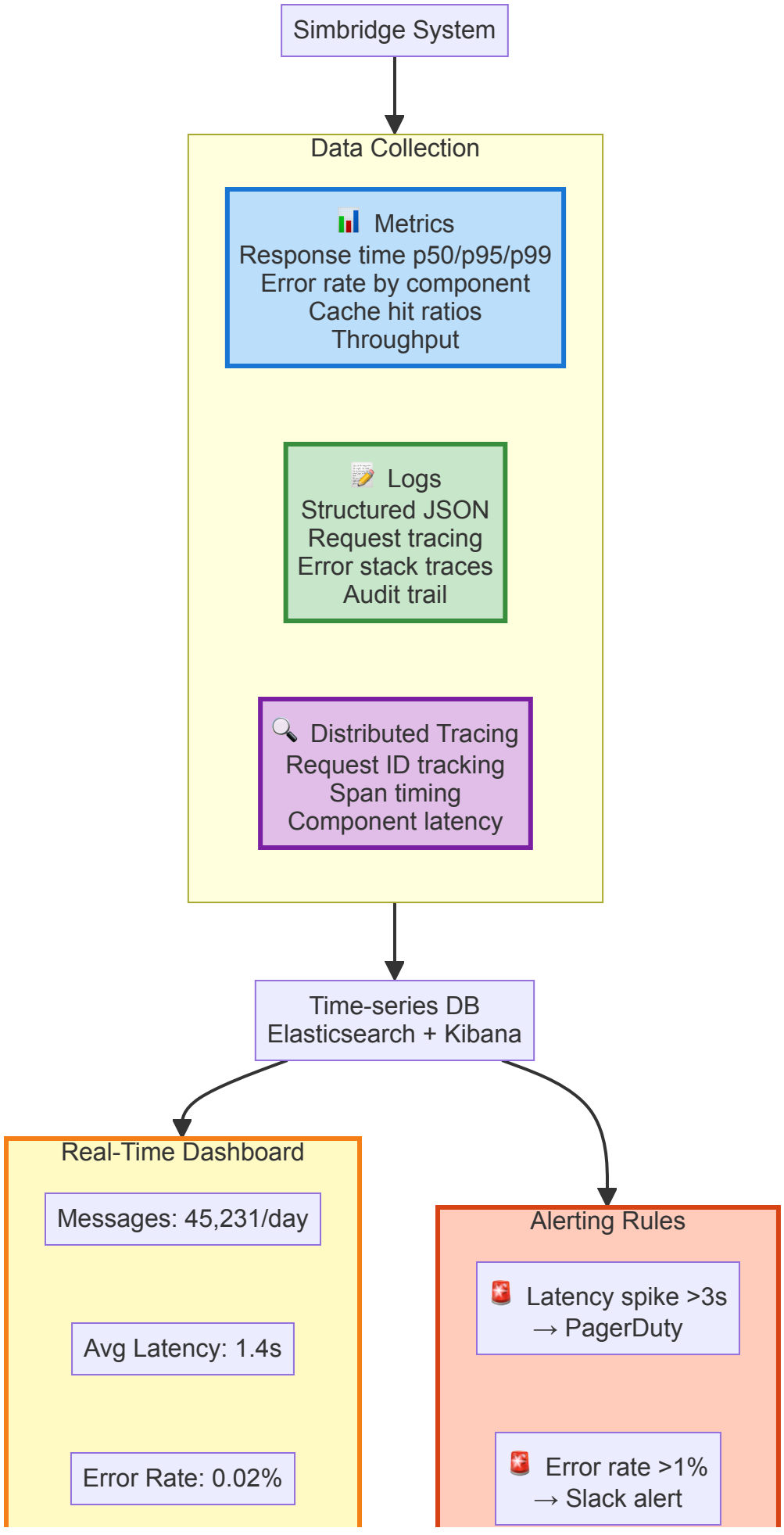
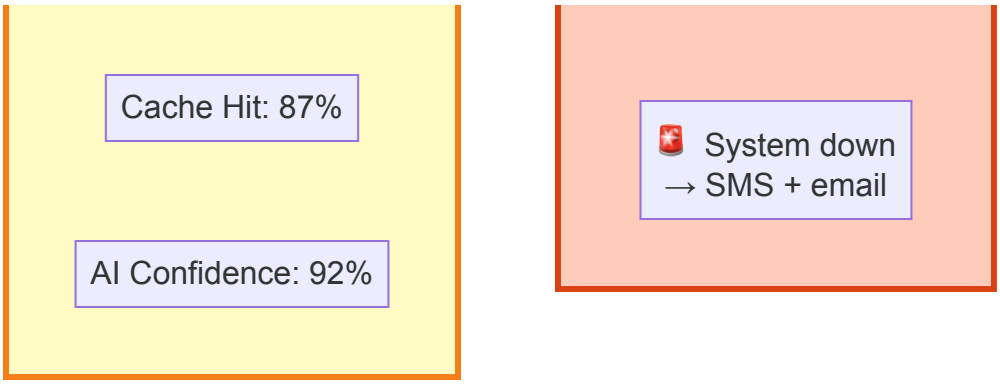
DIAGRAM 16: Component #9 - Observability Hub


Simbridge System
Data Collection
Metrics
Response time p50/p95/p99
Error rate by component
Cache hit ratios
Throughput
Logs
Structured JSON
Request tracing
Error stack traces
Audit trail
Distributed Tracing
Request ID tracking
Span timing
Component latency
Time-series DB
Elasticsearch + Kibana
Real-Time Dashboard
Messages: 45,231/day
Avg Latency: 1.4s
Error Rate: 0.02%
Alerting Rules
Latency spike >3s
→ PagerDuty
Error rate >1%
→ Slack alert


Cache Hit: 87%
AI Confidence: 92%
System down
→ SMS + email